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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,801	10/24/2003	William Fondriest	36846.003	2008

7590 11/03/2005

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EXAMINER
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DEBERADINIS, ROBERT L

ART UNIT	PAPER NUMBER
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2836

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**Application No. **10/693,801**

Applicant(s)

FONDRIEST, WILLIAM

Examiner

Robert DeBeradinis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over NANCE 6,293,141 in view of GUTHKE 5,388,7909 and GOMEZ 6,864,805.

Regarding claims 1, 7.

NANCE discloses a method of determining status of aircraft landing gear.

NANCE does not disclose a modular landing gear wiring harness said wiring harness comprising: a generally tubular wiring harness providing a conduit for electrical wiring, said wiring harness having connectable first, second, third and fourth sub-assemblies; said first sub-assembly adapted for electrical connection to aircraft electrical system; said second sub-assembly having a first end connectable to said first sub-assembly and a second end connectable to a weight-off-wheels sensor apparatus; said third sub-assembly having a first end connectable to said first sub-assembly, a second end adapted for connection to a brake temperature monitoring apparatus; and said fourth sub-assembly having a first end connectable to said third sub-assembly and a second end connectable to an anti-skid sensing apparatus.

GUTHKE teaches a guide and support frame for electrical conductors in an aircraft and GOMEZ teaches electrical wiring/conduit to interconnect the various operative assemblies and other components in an aircraft.

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It would have been obvious to one of ordinary skill in the art at the time of this invention to have modified the aircraft landing gear to include a wiring harness assemble. The motivation would have been to interconnect the sub-assemblies on the landing gear with a rigid cable assembly, obviously a requirement for the cable assembly due to the environment the landing gear has to operate in.

Claim 2-5, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over NANCE 6,293,141 in view of GUTHKE 5,388,7909 and GOMEZ 6,864,805 in further view of GLADFELTER 6,309,721.

Regarding claims 2-5, 9.

NANCE in view of GUTHKE and GOMEZ disclose the wiring harness according to claim 1.

NANCE in view of GUTHKE and GOMEZ does not disclose an external abrasion resistant sleeve.

GLADFELTER discloses a flexible protective sleeve for covering wires (abstract).

It would have been obvious to one of ordinary skill in the art at the time of this invention to modify the landing gear cable assemble to add the flexible protective sleeve to the assembly. The motivation to use the protective sleeve would be to protect the cable assemble in the areas where the cable assembly folds or bends when the landing gear is retracted.

Claims 6, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over NANCE 6,293,141 in view of GUTHKE 5,388,7909 and GOMEZ 6,864,805 in further view of DAVIS 6,827,594.

Regarding claims 6, 8.

NANCE in view of GUTHKE and GOMEZ disclose the wiring harness according to claim 1.

NANCE in view of GUTHKE and GOMEZ does not disclose wherein said connectable ends include composite connectors for reducing overall weight and increasing corrosion resistance.

DAVIS discloses connector assemble made of composite materials to resist corrosion.

It would have been obvious to one of ordinary skill in the art at the time of this invention to modify the landing gear harness to include connectors made of a composite material. The motivation would be to resist corrosion generated by the harsh environment the landing gear assembly operates in.

Any inquiry concerning this communication should be directed to Robert L. DeBeradinis whose number is (571) 272-2049. The Examiner can normally be reached Monday-Friday from 8:30 am to 5:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Brian Sircus, can be reached on (571) 272-2058. The Fax phone number for this Group is (703) 872-9306.

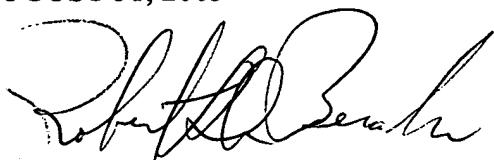
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AUGUST 31, 2005

A handwritten signature in black ink, appearing to read "Robert L. DeBeradinis". The signature is fluid and cursive, with the first name "Robert" and last name "DeBeradinis" clearly distinguishable.

**ROBERT L. DEBERADINIS**  
**PRIMARY EXAMINER**